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(54) DEVICE AND METHOD FOR DATA
TRANSMISSION

(57) Abstract:

PROBLEM TO BE SOLVED: To realize real time data communication which packet loss and delay do not occur so much matching the current network state in a data transmission system.

SOLUTION: This data transmission system is provided with a means 105 for estimating the transmission state of a transmission path at least on the basis of either jitter or a packet loss rate as supplemental information obtained from a receiving side by a transmitting side, and a means 102 for changing and controlling notification of at least the bit rate or the error resistance level of transmission data in the transmitting side, based on the estimated transmission state. This invention utilizes the characteristics of an RTP(Real-time Transport Protocol) which is provided with a mechanism

(RTCP(Real Time Control Protocol)) for notifying the jitter, the packet loss rate, etc., as supplemental information from the transmitting side and the receiving side. The transmitting side adjusts the bit rate of the transmission data and changes error resistance levels correspondingly with a transmission path state on the basis of the notification of the jitter, the packet loss rate, etc., as supplemental information obtained from the receiving side.

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